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10/077,365	02/15/2002	Gregory G. Rose	010027	3723	
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QUALCOMM, INC 5775 MOREHOUSE DR.			TRUONG, THANHNGA B		
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			2135		

DATE MAILED: 05/31/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application N	0.	Applicant(s)				
Office Action Summary		10/077,365		ROSE ET AL.				
		Examiner		Art Unit				
		Thanhnga B. T	ruong	2135				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
2a)⊠ This ac 3)⊡ Since t	nsive to communication(s) filed on <u>03/0</u> ction is FINAL . 2b) This his application is in condition for allowatin accordance with the practice under the practice und	s action is non-f ance except for f	inal. formal matters, pros		e merits is			
Disposition of Claims								
 4) Claim(s) 1-29,44-48 and 55-58 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-29,44-48 and 55-58 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 								
Application Pap	ers							
10) The dra Applica Replace	ecification is objected to by the Examination of th	re: a)⊠ accepto e drawing(s) be he ction is required if	eld in abeyance. See the drawing(s) is obj	37 CFR 1.85(a). ected to. See 37 C	FR 1.121(d).			
Priority under 3	5 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
2) Notice of Draft 3) Information Di	rences Cited (PTO-892) sperson's Patent Drawing Review (PTO-948) sclosure Statement(s) (PTO-1449 or PTO/SB/08 ail Date	4) [3) 5) [6) [Paper No(s)/Mail Da Notice of Informal Pa	te	O-152)			

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DETAILED ACTION

1. Applicant's amendment filed on March 07, 2006 has been entered. Claims 1-29, 44-48, and 55-58 are pending. Claims 30-43 and 49-54 are cancelled by the applicant.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 1-2, 4-19, 44-48 are rejected under 35 U.S.C. 102(e) as being anticipated by Tello (US 6,463,537).
 - a. Referring to claim 1:
 - i. Tello teaches:
- (1) a processor [i.e., referring to Figure 1, the major functional components of a typical motherboard comprises a CPU 101 (column 6, lines 22-23). Furthermore, the security engine 123 of this invention comprises a microprocessor with internal RAM (random access memory) and flash memory 125 and a scratch memory buffer 127 consisting of SRAM (Static Random Access Memory), a programming circuit 129 and independent battery backup circuit 131 (column 6, lines 40-45)];
- (2) a clock coupled to the processor configurable to generate a time element [i.e., the programming circuit 129 is logically connected to the security engine microprocessor 123, the security engine scratch memory 127, and the smart card reader 133 through the smart card interface 135. The smart card interface 135 is shown in Figure 2 and is comprised of PA0136, PB0138,

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PB1140, PB2142, PB3149 and Reset 150 lines which have pull down resistors on them, and Clock 152, Ground 154, and (Supply voltage) VCC 156 lines (column 6, lines 60-67)];

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(3) a memory element coupled to the processor configurable to store a private key and public key information [i.e., also stored within the ROM are the same six encryption algorithms as are found in the flash memory of the security engine. The first is a public key based cryptographic algorithm that provides encryption and decryption for 48 and 64 bits of data (column 15, lines 5-10). The CK, which is stored in the internal memory of the smart card and the internal memory of the security engine, is used as an encryption key with an algorithm to encrypt or decrypt all communications after the first transfer of data between the security engine and the smart card (column 24, lines 31-35)];

(4) at least one actuator (e.g., a mechanism that puts something into automatic action, like battery backup circuit) coupled to the processor [i.e., the battery backup circuit 131 connected to the microprocessor 125 allows the security engine 123 to always have automatic power on during interrupts such as during manual resets and power failures. This also ensures a secure and proper shut down procedure. This same battery also supplies the SRAM of the scratch memory 127. The scratch memory 127 is connected to the security engine microprocessor 125 through two lines. These two lines control the flow of data and address. The amount of data flow can easily be increased through the addition of more SRAM. A power on/power off circuit is connected to the microprocessor and the computer power supply. This allows the security engine to automatically power on during the start up of the computer or after an interrupt (column 6, lines 46-59)];

(5) a signature generator coupled to the processor operable to generate a digital signature, the digital signature being a function of the private key and the time element; and an emitter (e.g., having a capability to send) coupled to the signal generator operable to emit the secure identifier, the secure identifier comprising the digital signature, time element, and public key information [i.e.,

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a 'personalized' computer with a unique encrypted digital signature which will not boot up or recognize any data storage or communication peripheral devices without a matching 'personalized' smart card containing a complementary encrypted digital signature (see abstract). The flash memory of the security engine's microprocessor contains six encryption algorithms. One algorithm is used for the generation of the hash number from the personalized information entered by the holder of a smart card during the initial security set up. This hash number is used in the identification and authentication of the user of this invention (column 7, lines 63-67 through column 8, lines 1-2). Upon power up or interrupt of the computer, the modified BIOS takes control and allows the security engine microprocessor to look for, and if present, read from a smart card in the smart card reader which is logically connected to the security engine microprocessor. If the smart card and the computer have not been previously 'personalized' a security setup procedure is initiated and a unique hash number (digital signature) placed in the smart card during the initial set up of the security system and a complementary hash number similarly assigned to the security engine memory (column 5, lines 15-25). The level of access allowed is determined by the presence or absence of encrypted keys in the memory of the security engine which are required before any device driver can load and initialize and recognize its respective peripheral communication or data storage device. This enable and disable capability is achieved through the placement of enable/disable circuits between the peripheral device connector and its respective Bus. If the proper smart card is not present in the card reader, no device drivers will be loaded and the computer will not be operable (column 5, lines 35-44). Also stored within the ROM are the same six encryption algorithms as are found in the flash memory of the security engine. The first is a public key based cryptographic algorithm that provides encryption and decryption for 48 and 64 bits of data. This, and the same encryption algorithm stored in the security engine ensures that the initial data flowing between the smart card reader and the security engine microprocessor during the synchronization of

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communications is secure if intercepted (column 15, lines 6-13). In addition, Tello's invention also allows a 'personalized' computer system that contains this invention to identify and authenticate another 'personalized' computer connected to it in a network. In order to authenticate the identity of a second computer the first computer sends an identification request through application software which operates under the current operating system. This identification request is encrypted by a public key algorithm then forwarded through the network connection to the second computer (column 38, lines 21-29)].

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b. Referring to claims 2:

- i. Tello teaches:
- (1) a random number generator coupled to the processor to encrypt the digital signature [i.e., upon start up of the computer system, an authentication procedure is executed by the microcircuit board in which identifies and authenticates the user through the verification of a smart card involving the comparison of encrypted keys created by the random number generator (column 2, lines 55-59)].

c. Referring to claim 4:

- Tello teaches:
- (1) further comprising an input element coupled to the processor, the input element capable of receiving a personal identification number (PIN) [i.e., referring to Figure 1, keyboard, 117 and/or smart card reader, 133 are input elements].

d. Referring to claim 5:

i. This claim has limitations that are similar to those of claim 4, thus it is rejected with the same rationale applied against claim 4 above.

e. Referring to claim 6:

- i. Tello teaches:
- (1) further comprising a display coupled to the processor, the display capable of displaying key identifiers [i.e., if a smart card is not present in the smart card reader a request to the user to insert a smart card is given via a

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display command sent to the BIOS 509 (column 25, lines 32-34). In addition, another command is sent to the BIOS to display the user identification set up screen 527. This screen displays a unique serial number assigned each security motherboard during its manufacture and allows the user to input personal information to be used to 'personalize' each computer and smart card 529 (column 25, lines 62-67)].

f. Referring to claims 7-8:

- i. Tello teaches:
- audio tone or as an optical signal [i.e., the three main methods by which a user's claimed identity is verified are through the use of: 1.) something the individual knows such as a password or PIN (Personal Identification Number); 2.) something the individual possesses, such as a token--a magnetic stripe card or smart card for example; and/or 3.) something unique to the individual, such as a biometric characteristic--retina pattern or fingerprint for example (column 2, lines 1-8)].

g. Referring to claims 9-10:

- i. Tello teaches:
- voice activated switch [i.e., three different lengths of communication are supported between the security engine microprocessor and the smart card reader. They are 1 byte, 6 bytes and 8 bytes. This allows the invention to be compatible with several different types of smart cards and to also support other identification and authentication devices such as button memory and biometric readers (column 16, lines 10-16)].

h. Referring to claims 11-13, 40-42:

- i. Tello teaches:
- (1) wherein the public key information is a public key identifier; wherein the public key identifier is derived from the public key information; wherein the public key information is the public key [i.e., this identification request is encrypted by a public key algorithm then forwarded through the network

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connection to the second computer. This request contains a request for selected identification data parameters which can be compared with the same parameters stored in a database of the requesting computer system. These parameters can include special identification codes that are stored in the Application area of the smart card. Upon receiving this request, the identification request is stored in the scratch memory buffer of the security engine and decrypted using the same public key algorithm as in the first computer. (column 38, lines 27-37)].

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i. Referring to claims 14, 43:

- i. Tello teaches:
- (1) wherein the digital signature is encrypted using a personal identification number (PIN) [i.e., if the smart card and the computer have not been previously 'personalized' a security setup procedure is initiated and a unique hash number (digital signature) placed in the smart card during the initial set up of the security system and a complementary hash number similarly assigned to the security engine memory. The hash number calculations are based on a set of personal information provided by the holder of a particular smart card and thus each computer and smart card is uniquely 'personalized' for that user (column 5, lines 20-28)].
 - j. Referring to claims 15 and 44:
- i. These claims have limitations that is similar to those of claim1, thus they are rejected with the same rationale applied against claim 1 above.

k. Referring to claims 16, 45:

- i. Tello teaches:
- (1) further comprising identifying a PIN, and wherein generating a digital signature is further a function of the PIN [i.e., the three main methods by which a user's claimed identity is verified are through the use of: 1.) something the individual knows such as a password or PIN (Personal Identification Number); 2.) something the individual possesses, such as a token-a magnetic stripe card or smart card for example; and/or 3.) something unique to

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the individual, such as a biometric characteristic--retina pattern or fingerprint for example (column 2, lines 1-8)].

I. Referring to claims 17-18, 46-47:

i. These claims have limitations that are similar to those of claims 7-8, thus they are rejected with the same rationale applied against claims 7-8 above.

m. Referring to claims 19, 48:

i. Tello teaches:

(1) wherein the digital signature is derived from a private key [i.e., the security system involves the digital signing of adapter cards and ROM extensions for peripheral devices with the peripheral vendor's private key. During the ROM scan phase of the start up procedure of a computer, the BIOS compares a list of authorized public keys against the digital signatures of peripheral devices encountered during ROM scan. This requires that all approved peripheral devices be digitally signed with the vendor's private encryption key beforehand (column 4, lines 18-26)].

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 3, 20-29, 55-58 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tello (US 6,463,537), and further in view of Akiyama et al (US 5,784,464).

a. Referring to claims 3, 23:

i. Although Tello teaches a clock in Figure 2 and a timer (column 7, line 61) and number of data bits in cryptographic algorithm, Tello does not explicitly mention:

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(1) wherein the time element comprises a predetermined number of least significant bits of the time.

- ii. Whereas, Akiyama teaches:
- (1) The key update timer 17 is a timer for regulating a timing of processing in the key update processing unit 16, as shown in Figure 3.
- iii. It would have been obvious to a person having ordinary skill in the art at the time the invention was made to:
- (1) combine the teaching of Akiyama into Tello's system to provide a client authenticating system for making the identification data impossible to be used by a third party by dynamically creating identification data used for the authentication between the user (client) and the service provider both in a client system and in a service provider system (column 2, lines 11-16 of Akiyama).
 - iv. The ordinary skilled person would have been motivated to:
- (1) combine the teaching of Akiyama into Tello's system to protect these systems and the data stored within them from unauthorized access and theft (column 1, lines 26-27 of Tello).
 - b. Referring to claims 20, 26, 55:
 - i. Tello teaches:
- (1) a receiver configurable to receive a secure identifier [i.e., the smart card interface circuit provides lines PA0, PB0, PB1, PB2, PB3, Clock, VCC, Ground and Reset which receive signals from an attached smart card reader 133. With communication lengths of 4, 6, and 8 bits available, the interface for different types of smart cards and other authentication and identification devices is provided (column 7, lines 45-52)], the secure identifier comprising:
- (2) a digital signature, the digital signature comprising information derived from a private key, a public key identifier; and a time identifier [i.e., if the smart card and the computer have not been previously `personalized` a security setup procedure is initiated and a unique hash number (digital signature) placed in the smart card during the initial set up of the security system and a complementary hash number similarly assigned to the security engine memory

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(column 5, lines 19-25). The level of access allowed is determined by the presence or absence of encrypted keys in the memory of the security engine which are required before any device driver can load and initialize and recognize its respective peripheral communication or data storage device. This enable and disable capability is achieved through the placement of enable/disable circuits between the peripheral device connector and its respective Bus. If the proper smart card is not present in the card reader, no device drivers will be loaded and the computer will not be operable (column 5, lines 35-44). Also stored within the ROM are the same six encryption algorithms as are found in the flash memory of the security engine. The first is a public key based cryptographic algorithm that provides encryption and decryption for 48 and 64 bits of data. This, and the same encryption algorithm stored in the security engine ensures that the initial data flowing between the smart card reader and the security engine microprocessor during the synchronization of communications is secure if intercepted (column In addition, Tello's invention also allows a 'personalized' 15, lines 6-13). computer system that contains this invention to identify and authenticate another 'personalized' computer connected to it in a network. In order to authenticate the identity of a second computer the first computer sends an identification request through application software which operates under the current operating system. This identification request is encrypted by a public key algorithm then forwarded through the network connection to the second computer (column 38, lines 21-**29)]**; and

(3) a verifier configurable to verify the secure identifier [i.e., Tello's invention also allows a 'personalized' computer system that contains this invention to identify and authenticate another 'personalized' computer connected to it in a network. In order to authenticate the identity of a second computer the first computer sends an identification request through application software which operates under the current operating system. This identification request is encrypted by a public key algorithm then forwarded through the

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network connection to the second computer (column 38, lines 21-29)], the verifier comprising:

- (4) memory comprising information corresponding to the public key information received and time tolerance information [i.e., also stored within the ROM are the same six encryption algorithms as are found in the flash memory of the security engine. The first is a public key based cryptographic algorithm that provides encryption and decryption for 48 and 64 bits of data (column 15, lines 5-10). The CK, which is stored in the internal memory of the smart card and the internal memory of the security engine, is used as an encryption key with an algorithm to encrypt or decrypt all communications after the first transfer of data between the security engine and the smart card (column 24, lines 31-35)];
- (5) a key retriever coupled to the memory and configurable to retrieve a public key corresponding to the public key identifier [i.e., writing the retrieved identification data to the internal memory of the security engine microprocessor (column 46, lines 24-25)]; and
- (6) a time verifier (e.g., timer for verifying time) coupled to the memory and configurable to verify that the received time identifier falls within acceptable time tolerances [i.e., an interrupt line leads from the security engine microprocessor to various circuits which control the interrupt for the computer CPU, reset, on-off, detecting the presence of a smart card in the reader, and timer (column 7, lines 58-61)].
- ii. Although Tello teaches a clock in Figure 2 and a timer (column 7, line 61) and number of data bits in cryptographic algorithm, Tello does not explicitly mention:
 - (1) time tolerance information.
 - iii. Whereas, Akiyama teaches:
- (1) The key update timer 17 is a timer for regulating a timing of processing in the key update processing unit 16, as shown in Figure 3.
- iv. It would have been obvious to a person having ordinary skill in the art at the time the invention was made to:

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(1) combine the teaching of Akiyama into Tello's system to provide a client authenticating system for making the identification data impossible to be used by a third party by dynamically creating identification data used for the authentication between the user (client) and the service provider both in a client system and in a service provider system (column 2, lines 11-16 of Akiyama).

- v. The ordinary skilled person would have been motivated to:
- (1) combine the teaching of Akiyama into Tello's system to protect these systems and the data stored within them from unauthorized access and theft (column 1, lines 26-27 of Tello).
 - c. Referring to claims 21, 27, 56:
 - i. Tello teaches:
- three main methods by which a user's claimed identity is verified are through the use of: 1.) something the individual knows such as a password or PIN (Personal Identification Number); 2.) something the individual possesses, such as a tokena magnetic stripe card or smart card for example; and/or 3.) something unique to the individual, such as a biometric characteristic--retina pattern or fingerprint for example (column 2, lines 1-8)], and wherein the receiver is configurable to decrypt the digital signature using the PIN [i.e., all tasks involving a peripheral device pass through this address space and it is here that all encryption and decryption operations take place controlled by the security engine (column 9, lines 5-8)].
 - d. Referring to claim 22:
 - i Tello teaches:
- (1) wherein the key retriever compares the public key identifier received to public key information stored in memory [i.e., when the registers are read from the smart card to determine the type of card is inserted, an encrypted code number is read from the register of the inserted smart card and decrypted by the security engine microprocessor using the public encryption key 475. This code is then compared to a table of smart card code numbers that are stored in flash memory in the security engine 477. From this comparison, the type of smart card can be ascertained.

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By default, all smart cards, with the exception of vendor smart cards, have the code for a 'new' card in the appropriate register location until changed through the set up procedure (column 24, lines 46-56)].

e. Referring to claims 24-25, 28-29, 57-58:

i. These claims have limitations that are similar to those of claims 7-8, thus they are rejected with the same rationale applied against claims 7-8 above.

Response to Argument

6. Applicant's arguments, see page 9 of the remarks, filed March 07, 2006, with respect to rejection under 35 USC 101 have been fully considered and are persuasive. The only rejection under **35 USC 101** of office action mailed September 07, 2005 has been withdrawn.

Applicant's arguments for ground(s) of rejections under 35 USC 102 and 35 USC 103 filed March 07, 2006 have been fully considered but they are not persuasive.

Applicant argues that:

Tello does not disclose a signature generator operable to generate a digital signature, the digital signature being a function of a private key and a time element. Additionally, Tello does not disclose an emitter (i.e., transmitter) as claimed.

Examiner does not agree with the applicant and still maintains that:

Tello teaches upon start up of the computer system, an authentication procedure is executed by the microcircuit board in which identifies and authenticates the user through the verification of a smart card involving the comparison of encrypted keys created by the random number generator (column 2, lines 55-59 of Tello). In addition, an interrupt line leads from the security engine microprocessor to various circuits which control the interrupt for the computer CPU, reset, on-off, detecting the presence of a smart card in the reader, and timer. Other interrupts can be added to these in the future.. The flash memory of the security engine's microprocessor contains six encryption algorithms. One algorithm is used for the generation of the hash number (i.e., this is digital signature, emphasis added) from the personalized information (i.e,

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secret or private key) entered by the holder of a smart card during the initial security set up. This hash number is used in the identification and authentication of the user of this invention. The preferred algorithm is HAVAL although one skilled in the art can easily see that a similar algorithm may be substituted without materially changing the invention. This algorithm is used to generate 3 hash numbers (H1, H2, H3), which are generated from the personal information inputted by the user during the set up of the user security system. These hash numbers are stored in the flash memory of the security engine microprocessor 125 (column 7, lines 58-67 through column 8, lines 9 of Tello). Furthermore, referring to Figure 5, TX1_COM1 and TX2_COM2 represents the transmitting output to transmit data to the communication port. RX1_COM1 and RX2_COM2 represents the receiving output to receive data from the communication port. Thus, Tello teaches the claimed subject matter.

Applicant further argues that:

Neither Tello nor Akiyama disclose all the elements of claims 3, 20, 26, and 55, applicant respectfully submits that Examiner has failed to set forth a prima facie case of obviousness.

Examiner again disagrees with the applicant and still maintains that:

Tello teaches upon power up, reset or interrupt of the computer, the microprocessor looks for, and if present, reads from the smart card in the smart card reader which is logically connected to the security engine microprocessor. A software program compares a unique digital signature placed in the smart card to a digital signature assigned to the computer. If these two digital signatures are complementary, the boot up procedure is allowed to continue and access to the computer allowed up to a predetermined level depending on the level of access configured on the smart card. This invention can also be used to allow identification and authentication of the computer and its user in networks. However, Tello is silent on the capability of showing the time tolerance information. Whereas, Akiyama teaches the key update timer 17 is a timer for regulating a timing of processing in the key update processing unit 16, as shown in Figure 3. Thus the combination of teaching between Tello and Akiyama teaches the claimed subject matter.

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As for claim 3, although Tello teaches a clock in Figure 2 and a timer (column 7, line 61) and number of data bits in cryptographic algorithm, Tello does not explicitly mention a predetermined number of least significant bits of the time. Whereas, Akiyama teaches the key update timer 17 is a timer for regulating a timing of processing in the key update processing unit 16, as shown in Figure 3.

In response to applicant's argument that there is no suggestion to combine the references, the examiner recognizes that obviousness can only be established by combining or modifying the teachings of the prior art to produce the claimed invention where there is some teaching, suggestion, or motivation to do so found either in the references themselves or in the knowledge generally available to one of ordinary skill in the art. See *In re Fine*, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988)and *In re Jones*, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992). In this case, the combination of teaching between Tello and Akiyama is sufficient.

Besides, Tello and Akiyama do not need to disclose anything over and above the invention as claimed in order to render it unpatentable or anticipate. A recitation of the intended use of the claimed invention must result in a structural difference between the claimed invention and the prior art in order to patentably distinguish the claimed invention from the prior art. If the prior art structure is capable of performing the intended use, then it meets the claimed limitations.

For the above reasons, it is believed that the rejections should be sustained.

Conclusion

7. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date

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of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thanhnga (Tanya) Truong whose telephone number is 571-272-3858.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim Vu can be reached at 571-272-3859. The fax and phone numbers for the organization where this application or proceeding is assigned is 703-872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone

number is 571-272-2100.

TBT

May 26, 2006

SUPERVISORY DATES T EXAMIN TECHNOLOGY CENTER 2100